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[54] **SYSTEM FOR VERIFYING NUCLEAR WARHEAD PREARM/SAFING SIGNALS**

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[57] **ABSTRACT**

A system for collecting, storing, and verifying the data pulse train for prearm and safing of a nuclear warhead on a submarine using MK 63 or 67 torpedo tubes is provided. The components of the system include a notebook computer operating four software programs. The software programs allow collection of the data pulse train, graphing of the collected data, comparing of the collected data with validated samples, and verifying of the validity of the collected data. The notebook computer operates the system through data acquisition expansion boards and a combat control system interface board connected to a Prearm Load Simulator. Data is also recorded on a strip chart recorder which is connected to the system through the Prearm Load Simulator. An adapter cable connects the system to a digital missile simulator and to the submarine's combat control system via the torpedo tube breech door interface.

12 Claims, 2 Drawing Sheets